

Notice of Allowability

Application No.

09/998,962

Examiner

Tuan N. Nguyen

Applicant(s)

JOYCE, WILLIAM B.

Art Unit

2828

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 06/30/2006.
2. ☒ The allowed claim(s) is/are 1,2 and 4-15.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☒ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 9/15/2006.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAIL ACTION

Drawings

1. New corrected drawings are required in this application to avoid abandonment, because it has been allowed. Drawing is not acceptable to the draftsperson, see the attached Notice of Draftsperson drawing review.

Response to Amendment

2. In responding to applicant's amendment filed 06/30/2006, claims 1, 2, 14, 18, 19 have been amended.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below, to the amended claims 1, 3, 4, 5, 8, 10, 12, 14, 16-19 should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview on September 15, 2006 with Mr. Joseph A. Pugh (Attorney for Applicant, Reg. No. 52,137).

1. (Currently Amended) A laser module case comprising:
a snout through which an optical fiber assembly may be passed, wherein the

optical fiber assembly includes an optical fiber disposed within a sleeve, the snout disposed through a wall of the case, wherein the optical fiber assembly is movable in X, Y and Z-directions within the snout so that the optical fiber may be aligned with a laser within the laser module case after the module case is closed, wherein the snout has an inner end and an outer end; and

an inner joint to secure the snout to the optical assembly at the inner end, wherein the optical fiber assembly is of a smaller cross-sectional exterior diameter than the snout cross-sectional inner diameter so that the optical assembly may move in an X and Y-direction within the snout and may thereby be aligned with a laser positioned within the case, and wherein the sleeve able to move in the Z-direction to align the optical fiber assembly in the Z-direction; and

an outer joint to secure the snout to the optical assembly at the outer end.

Claim 3: is canceled

4. (Currently Amended) The laser module case of claim 31 further comprising ~~an outer joint~~, wherein the aligned optical fiber assembly may be secured in position by the outer joint.

5. (Currently Amended) The laser module case of claim 31 wherein at least a portion of the inner joint is compliant.
6. (Currently Amended) The laser module case of claim 41 wherein at least a portion of the outer joint is compliant.
8. (Currently Amended) The laser module case of claim 31 wherein the inner joint is a flange.
10. (Currently Amended) The laser module case of claim 31 wherein the inner joint is a solder joint.
12. (Currently Amended) The laser module case of claim 31 wherein the inner joint is a welded joint.
14. (Currently Amended) A laser module case comprising:
a hollow snout having an inner end and an outer end
an outer joint; and
an inner joint;
wherein the snout is disposed through a wall of the case;
an optical fiber assembly is disposed through the snout, wherein the optical fiber assembly includes an optical fiber disposed within a sleeve;
the inner joint secures the snout to the optical fiber assembly at their inner ends;

and

the optical fiber assembly is disposed through the snout, wherein the optical fiber assembly includes an optical fiber disposed within a sleeve;

the inner joint secures the snout to the optical fiber assembly at their inner ends;

and

the optical fiber assembly is of a smaller cross-sectional exterior diameter than the snout cross-sectional inner diameter so that the optical fiber assembly may move in X, Y, and Z-direction within the snout, wherein the sleeve able to move in the Z-direction to align the optical fiber assembly in the Z-direction; and

wherein the optical fiber may be aligned with a laser positioned within the case after the case is closed.

Claim 16-19: are canceled

REASON FOR ALLOWANCE

Allowable Subject Matter

4. The following is an examiner's statement of reasons for allowance - Applicant's response filed on 06/30/2006 has been considered, with respect to claims 1 and 14, the references of the record fail to teach or suggest:

Claims 1, 14:

A laser module comprising an optical fiber disposed within a sleeve disposed through the case wall, having an *inner joint secures a hollow snout at the inner end*, and an *outer joint secure the snout to the optical assembly at the outer end*, wherein the *optical fiber assembly is movable in the snout and sleeve in an X, Y, Z direction after the module case is closed*.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan N Nguyen whose telephone number is (571) 272-1948.

The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harvey Minsun can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

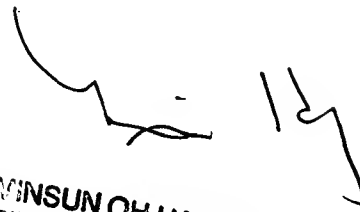
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on

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access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan N. Nguyen

A handwritten signature in black ink, appearing to read "Tuan Nguyen", with a long horizontal stroke extending to the left.A handwritten signature in black ink, appearing to read "Minsun Oh", with a long horizontal stroke extending to the left.

**MIN SUN OH HARVEY
PRIMARY EXAMINER**